

TECH & COMMUNICATIONS MANUAL FOR STANDING ROCK

BEFORE YOU GO:

- Obtain **Two-Way Radio** with working range of at least 15 miles - popular at camp are Baofeng UV-5Rs, [\\$25 on Amazon](#) and set channels (see separate handout).
- Install [Signal](#) for iOS or Android phones for secure, encrypted text and phone calls.
- USB backup phone battery pack (ideally solar-powered) as batteries drain quickly at SR

ON THE GROUND:

- Little to no cellular coverage - folks upload media and use the Internet at the local casino 10 miles away.
- Internet connectivity is currently in-process, with a link being built to the local tribal telecom.
- Another project underway is building a wifi intranet mesh providing resources requested by the Lakota, medical research information, and an Internet portal enabling communication to the outside world.
- Even in airplane mode, phone batteries last a maximum of 8 hours.
- Tribal elders don't want people to be constantly hooked on their devices, walking around camp. Stay present.
- Filming and photographing are prohibited in certain areas of camp and during ceremony; always ask for consent before capturing media.
- Encrypt your phone and hard drive - unencrypted data is easily obtained.

EQUIPMENT DONATIONS NEEDED:

- Two-way radios (Baofeng brand recommended)
- Ubiquiti routers for building out the wireless network
- Telescoping flagpoles, POE injectors, outdoor shielded ethernet cable
- [OpenWRT-compatible](#) routers
- Small solar, wind, or other sustainable energy modules to power individual nodes

TECHNICAL NEEDS ON THE GROUND:

- Certified radio tower climbers urgently needed to finish the link to the local tribal telecom bringing internet to the camps
- Wireless network geeks to help build out the network and design a local intranet mesh
- Solar and wind energy geeks to build a distributed network of sustainable, [off-grid power for individual nodes](#)

CONTACT AT CAMP FOR TECH VOLUNTEERS:

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